

CLAIMS:

1. A face shield for headgear comprising:
 - a generally transparent main lens adapted for engagement to the headgear;
 - the main lens comprising curved inner and outer main lens surfaces and having a central recessed portion, the recessed portion having a curved recessed inner lens surface and a curved recessed outer lens surface, the recessed inner lens surface and the recessed outer lens surface being respectively offset from the curved inner and outer main lens surfaces; and
 - the recessed portion being adapted to receive a secondary lens therein such that a sealed air gap is formed between the secondary lens and the main lens, thereby forming a sealed double pane lens having condensation reduction properties.
2. The face shield as defined in claim 1, wherein the main lens is frame-less, being engageable to the headgear without a perimeter frame.
3. The face shield as defined in claim 1, wherein the face shield comprises an electrical heating system providing further condensation reduction.
4. The face shield as defined in claim 1, wherein the recessed portion substantially corresponds to an opening in the headgear.
5. The face shield as defined in claim 1, wherein edges of the recessed portion are disposed at least just

outside a visual field of a user wearing the headgear.

6. The face shield as defined in claim 1, wherein the recessed portion is recessed outward relative to the inner main lens surface.

7. The face shield as defined in claim 1, wherein the recessed inner lens surface and the recessed outer lens surface are offset a common distance from the curved inner and outer main lens surfaces respectively.

8. The face shield as defined in claim 7, wherein the common distance is greater than a thickness of the secondary lens.

9. A face shield for headgear comprising:

a generally transparent main lens adapted for engagement to the headgear;

the main lens comprising curved inner and outer main lens surfaces and having a central recessed portion, the recessed portion having a curved recessed inner lens surface and a curved recessed outer lens surface, the recessed inner lens surface and the recessed outer lens surface being respectively offset from the curved inner and outer main lens surfaces; and

a secondary lens, selectively engageable within the recessed portion of the main lens such that a sealed air gap is formed between the secondary lens and the main lens, thereby forming a sealed double pane lens having condensation reduction

properties when the secondary lens is engaged within the recessed portion.

10. The face shield as defined in claim 9, wherein the main lens is frame-less, being adapted for engagement to the headgear without a perimeter frame.
11. The face shield as defined in claim 9, wherein the face shield comprises an electrical heating system providing further condensation reduction.
12. The face shield as defined in claim 11, wherein the secondary lens comprises the electrical heating system.
13. The face shield as defined in claim 12, wherein the electrical heating system is disposed on a surface of the secondary lens facing the air gap.
14. The face shield as defined in claim 9, wherein the secondary lens is replaceable.
15. The face shield as defined in claim 9, wherein a perimeter gasket forms a seal between the secondary lens and the main lens, thereby defining the sealed air gap therebetween.
16. The face shield as defined in claim 15, wherein the perimeter gasket is disposed on the secondary lens.
17. The face shield as defined in claim 15, wherein the perimeter gasket is substantially transparent.
18. The face shield as defined in claim 15, wherein the perimeter gasket is compressible such that creation

of a slight vacuum in the air gap is possible, enabling the secondary lens to be retained in place within the recessed portion by suction.

19. The face shield as defined in claim 9, wherein the recessed portion substantially corresponds to an opening in the headgear.
20. The face shield as defined in claim 9, wherein edges of the recessed portion are disposed at least just outside a visual field of a user wearing the headgear.
21. The face shield as defined in claim 9, wherein the recessed inner lens surface and the recessed outer lens surface are respectively offset a common distance from the curved inner and outer main lens surfaces, the common distance being greater than a thickness of the secondary lens.
22. The face shield as defined in claim 9, wherein the recessed portion is recessed outward relative to the inner main lens surface.
23. The face shield as defined in claim 9, wherein the secondary lens has a radius of curvature greater than the main lens, such that the secondary lens is at least partly frictionally retained within the recessed portion.